UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,698	02/03/2004	Ozgur C. Leonard	15437-0601	3805
	7590 10/20/200 LERMO TRUONG &	EXAMINER		
AND SUN MIC	CROSYSTEMS, INC.	WAI, ERIC CHARLES		
2055 GATEWAY PLACE SUITE 550			ART UNIT	PAPER NUMBER
SAN JOSE, CA	95110-1089	2195		
			MAIL DATE	DELIVERY MODE
			10/20/2008	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Appli	cation No.	Applicant(s)				
		10/7	71,698	LEONAI	LEONARD ET AL.			
		Exam	niner	Art Unit	t .			
			C. WAI	2195				
<i> The</i> Period for Re	MAILING DATE of this commur	nication appears o	n the cover sheet	with the correspon	idence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠ Res	consive to communication(s) file	ed on <i>29 July 200</i>	8					
· <u> </u>	Responsive to communication(s) filed on <u>29 July 2008</u> .  This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
<i>′</i> =		/ <b>—</b>		atters, prosecution	as to the merits is			
·—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition o	f Claims							
4)⊠ Claiı	n(s) <u>1-24</u> is/are pending in the a	application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	i) Claim(s) is/are allowed.							
·	6)⊠ Claim(s) <u>——</u> is/are allowed.							
·	n(s) is/are objected to.							
•	m(s) are subject to restric	ction and/or electi	on requirement.					
Application P			·					
_	specification is objected to by th	o Evaminor						
•			or h) Dobiected t	o by the Evamine	r			
•	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
			-					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under	· 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some color None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2) Notice of D 3) Information	eferences Cited (PTO-892) raftsperson's Patent Drawing Review (F Disclosure Statement(s) (PTO/SB/08) )/Mail Date	PTO-948)	Paper N	v Summary (PTO-413) o(s)/Mail Date. f Informal Patent Appli 				

Art Unit: 2195

### **DETAILED ACTION**

1. Claims 1-24 are presented for examination.

### Information Disclosure Statement

2. The information disclosure statements filed 10/04/2004 and 12/22/2007 have not been considered by the examiner. The information cited is "related applications.

Applicant should place this information in the "related applications" section of the specification for consideration by the Examiner. Correction is required.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Berger et al. (US PG Pub No. US 2003/0014466 A1) in view of Armstrong et al. (US PG Pub No. US 2002/0156824 A1).
- 5. Armstrong was disclosed in IDS date 10/03/2005. Berger was disclosed in IDS dated 09/18/2007.

Art Unit: 2195

- 6. Regarding claim 1, Berger teaches a machine-implemented method, comprising: establishing, within a global operating system environment provided by an operating system, a non-global partition which serves to isolate processes running within the non-global partition from other non-global partitions within the global operating system environment, wherein the non-global operating system partitions do not each have a separate operating system kernel executing therein ([0035] lines 9-14, wherein an operating system sets up logically protected computing environments or compartments).
- 7. Berger does not teach associating a resource limit with the non-global partition wherein the first resource limit indicates a maximum amount of a particular resource that can be allocated to the non-global partition.
- 8. Armstrong teaches the use of processor resource pools in logically partitioned system ([0011-0013]). Each capped partition is constrained to utilize no more than the specified processing capability allocated to the partition ([0013]). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Berger to include processor resource pools. Since Berger only discloses methods to assign network resources, one would be motivated by the desire to include a way of assigning each compartment in Berger to a processor resource pool.
- 9. Berger and Armstrong do not explicitly teach associating a second resource limit with a group of one or more processes within the non-global partition, wherein the

Art Unit: 2195

second resource limit indicates a maximum amount of the particular resource that can be allocated to the group of one or more processes.

- 10. However, both Berger and Armstrong teach that separate applications are allocated to each of the partitions (Berger [0035], wherein applications are separated in compartments; Armstrong [0026], wherein logical partitions allows the isolation of tasks). It is old and well known to place resource limits on tasks that share the same resources to provide for the efficient sharing of resources. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to including associating a resource limit with a group of one or more processes within the partitions. One would be motivated by the desire to share the resources among the various tasks within each partition and prohibit any one task from blocking other tasks from executing.
- 11. Regarding claim 2, Armstrong teaches that a global partition administrator sets the first resource limit ([0025]).
- 12. Regarding claim 3, Armstrong teaches that a non-global partition administrator sets the second resource limit ([0036]).
- 13. Regarding claim 4, Armstrong teaches: receiving a resource allocation request for the particular resource from a process executing in the group of one or more processes; determining an amount of the particular resource that can be allocated; and allocating the determined amount to the group of one or more processes ([0035],

Art Unit: 2195

wherein it is inherent that processes running under an operating system request resources, and operating systems allocate the resources accordingly).

- 14. Regarding claim 5, Berger and Armstrong do not explicitly teach: calculating an available amount of the particular resource, and wherein if the resource allocation request is less than or equal to the available amount, then the determined amount is set to the amount of the resource allocation request.
- 15. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to set the determined amount to the amount of the resource allocation request. It is old and well known to allocate resources if such resources are sufficiently available.
- 16. Regarding claim 6, Berger and Armstrong do not explicitly teach wherein if the resource allocation request is greater than the available amount, then the determined amount is set to the available amount.
- 17. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to set the determined amount to the available amount. It is old and well known to allocate resources to an amount that is available.
- 18. Regarding claim 7, Berger and Armstrong do not teach wherein if the resource allocation request is greater than the available amount, then the determined amount is set to zero.

Art Unit: 2195

19. It would have been obvious to one of ordinary skill in the art at the time of the invention to set the determined amount to zero. It is old and well known the deny requests if such requests cannot be completely fulfilled. One would be motivated by the desire to allocate zero resources to the requester is the request could not be completely fulfilled.

- 20. Regarding claim 8, Berger and Armstrong do not teach wherein calculating further comprises: calculating a first amount by subtracting the total amount of the particular resource allocated to the non-global partition from the first resource limit; calculating a second amount by subtracting the total amount of the particular resource allocated to the group of one or more processes from the second resource limit; and setting the available amount to the lower of the first amount and the second amount.
- 21. It is well known in the art to subtract the amount consumed from the total amount to realize the amount available. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to calculate an available amount using this method and choosing the lesser of the amounts to determine the amount available.
- 22. Regarding claims 9-24 they are the machine-readable medium and apparatus claims of claims 1-8 above. Therefore they are rejected for the same reasons as claims 1-8 above.

Art Unit: 2195

## Response to Arguments

23. Applicant's arguments with respect to claims 1-24 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

24. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric C. Wai whose telephone number is 571-270-1012. The examiner can normally be reached on Mon-Thurs, 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng - Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Li B. Zhen/ Primary Examiner, Art Unit 2194 /Eric C Wai/ Examiner, Art Unit 2195